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## CLAIMS:

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1. An optical panel comprising an optical film for redirecting light incident upon a rear face of the optical film, the optical film comprising:

a front face; and

a rear face having a plurality of substantially periodic light-deflecting elements disposed thereon, each respective element comprising:

a transparent first facet for transmitting light incident thereupon;

an internally reflecting second facet for effecting internal reflection of the transmitted light within the element;

at least one intermediate facet disposed between and adjoining the first and second facets at first and second junctions respectively; and

a further section disposed between the second facet of the element and a first facet of an adjacent element,

wherein a first and a second full internal angle within the element at the first junction and the second junction respectively is at least 90 degrees and no greater than 180 degrees.

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- 2. The optical panel of claim 1, wherein, in use, the at least one intermediate facet is substantially parallel to a direction of the light incident upon the first facet.
- 30 3. The optical panel of claim 1, wherein, in use, the at least one intermediate facet is substantially parallel to a direction in a range between a direction of the light incident upon the first facet and a direction of the light

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transmitted by a region of the first facet closest to the first junction with the intermediate facet.

- 4. The optical panel of any preceding claim, wherein the at least one intermediate facet comprises a single facet adjoining the first facet at a first junction and adjoining the second facet at a second junction.
- 5. The optical panel of any preceding claim, wherein the further section of the element does not have a transmissive or reflective optical function.
  - 6. The optical panel of any preceding claim, wherein the second facet is arranged to effect internal reflection of the transmitted light by total internal reflection.
    - 7. The optical panel of any preceding claim, wherein the first facet is a convexly curved focusing element.
- 20 8. The optical panel of any preceding claim, further comprising black stripes disposed on at least one face of the optical panel without substantially blocking a path of the light through the panel.
- 9. The optical panel of any preceding claim, wherein the optical film is adapted to receive and redirect light incident thereupon at an angle of incidence with respect to the rear face generally of the film of 45 degrees or greater.

10. An optical panel for displaying projected light incident upon the optical panel, the optical panel comprising a front face and a rear face, the rear face having a plurality of substantially periodic light-

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deflecting elements disposed thereon, each respective element comprising:

a transparent first facet for transmitting light incident thereupon;

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an internally reflecting second facet for effecting internal reflection of the transmitted light within the element, the second facet being adjoined to the first facet; and

a further section disposed between the second facet of
the element and a first facet of an adjacent element,
wherein at least one of the first and second facets of the
element is convexly curved so that a function of the first
and second facets acting in concert includes bringing the
transmitted and reflected light to a focus at or near to a
plane defined by the front face of the panel.

- 11. The optical panel of claim 10, further comprising black stripes disposed on at least one face of the optical panel without substantially blocking a path of the light through the panel.
- 12. A rear projection video system, comprising:
  the optical panel of any preceding claim; and
  a projector arranged to project a video image onto the
  rear face of the optical panel for providing a viewable
  image downstream of the front face of the optical panel.
  - 13. An optical film for an optical panel, the optical film having the features of the optical film recited in any of claims 1 to 9.
    - 14. An optical panel substantially as herein described with reference to the accompanying drawings.

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15. A rear projection video system substantially as herein described with reference to the accompanying drawings.

16. An optical film for an optical panel substantially as herein described with reference to the accompanying drawings.